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1 Measurement-based models of delivery and interference in static wireless networks

Charles Reis, Ratul Mahajan, Maya Rodrig, David Wetherall, John Zahorjan

 August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06**, Volume 36 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(407.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present practical models for the physical layer behaviors of packet reception and carrier sense with interference in static wireless networks. These models use measurements of a real network rather than abstract RF propagation models as the basis for accuracy in complex environments. Seeding our models requires N trials in an N node network, in which each sender transmits in turn and receivers measure RSSI values and packet counts, both of which are easily obtainable. The models then predict ...

Keywords: RSSI, interference, modeling

2 Achieving bounded fairness for multicast and TCP traffic in the Internet

Huayan Amy Wang, Mischa Schwartz

 October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '98**, Volume 28 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(1.85 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is an urgent need for effective multicast congestion control algorithms which enable reasonably fair share of network resources between multicast and unicast TCP traffic under the current Internet infrastructure. In this paper, we propose a quantitative definition of a type of bounded fairness between multicast and unicast best-effort traffic, termed "essentially fair". We also propose a window-based Random Listening Algorithm (RLA) for multicast congestion control. The algorithm is proven ...

Keywords: Internet, RED and drop-tail gateways, flow and congestion control, multicast, phase effect

3
MANETs: Gateway adaptive pacing for TCP across multihop wireless networks and the Internet

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